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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/911,277	07/23/2001	Frank-Gerhard Boss	Le A 34 494	4089
7590 07/28/2004			EXAMINER	
Jeffrey M. Greenman Vice President, Patents and Licensing			HUI, SAN MING R	
Bayer Corporation			ART UNIT	PAPER NUMBER
400 Morgan Lane West Haven, CT 06516			1617	
West Haven, C1 00510			DATE MAILED: 07/28/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/911,277	BOSS ET AL.			
		Examiner	Art Unit			
		San-ming Hui	1617			
Period fo	The MAILING DATE of this communica or Reply	tion appears on the cover sheet w	vith the correspondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statutoure to reply within the set or extended period for reply will, reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thi bry period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed of	on <u>10 May 2004</u> .				
2a) <u></u>	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the me						
	closed in accordance with the practice	under <i>Ex parte Quayl</i> e, 1935 C.[D. 11, 453 O.G. 213.			
Dispositi	ion of Claims					
4)🖂	Claim(s) 10-16 is/are pending in the ap	plication.				
	4a) Of the above claim(s) is/are v	withdrawn from consideration.				
·	Claim(s) is/are allowed.					
·	Claim(s) <u>10-12,15 and 16</u> is/are rejecte	d.				
	Claim(s) <u>13 and 14</u> is/are objected to.					
8)	Claim(s) are subject to restriction	n and/or election requirement.				
Applicati	ion Papers					
9)[The specification is objected to by the E	xaminer.				
10)[The drawing(s) filed on is/are: a)	, , , , , , , , , , , , , , , , , , ,	· ·			
	Applicant may not request that any objection					
441	Replacement drawing sheet(s) including the		• •			
11)	The oath or declaration is objected to by	∕ the Examiner. Note the attache	a Office Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)[☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority doc					
	2. Certified copies of the priority doc					
	3. Copies of the certified cop		received in this National Stage			
	application from the International	Bureau (PCT Rule 17 2(a))				
	See the attached detailed Office action for					

Attachment(s) 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date.

5) Notice of Informal Patent Application (PTO-152) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date __ 6) Other: _____. U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Action Summary Part of Paper No./Mail Date 07232004 Application/Control Number: 09/911,277 Page 2

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 10, 2004 has been entered.

Claims 10-16 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 10-12 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haning et al. in view of Merck Manual (Merck Manual, Home edition, 1997, pages 12-15, 381-387, 398-402).

Haning et al. teaches a method of treating cerebrovascular diseases (e.g., stroke) comprising administering to a patient the herein claimed PDE-II inhibitory compound of formula I, including the compound represented by example 39 (which reads on formula (I) compound of claim 9 in the instant application), see col. 43, lines 25-45, see also col. 13 line 50 to col. 14 line 61.

Haning et al. does not expressly teach the particular manifestations/symptoms of a stroke (e.g., impaired memory, perception, learning ability). Haning et al. does not expressly teach the method of treating impaired memory, perception, or learning ability caused by other disorders recited herein.

Merck Manual teaches visual changes, dementia, and depression can be resulted from stroke (See page 382, col. 2, and page 384, col. 1, page 399, col. 1).

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Merck Manual also teaches depression can cause loss of memory (See page 15, col.

2).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the compounds of Haning in a method to treat dementia.

One of ordinary skill in the art would have been motivated to employ the compounds of Haning in a method to treat dementia. Since stroke can cause dementia, possessing the teachings of the cited prior arts, one of ordinary skill in the art would be reasonably expect to employ Haning's compounds to treat stroke and thereby treat loss of memory, disorder of perception.

Response to Arguments

Applicant's arguments with respect to claims 10-12 and 15-16 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 13-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The methods of treating dementia caused by Alzheimer's and Parkinson's disease by employing the herein claimed compounds are not seen to be taught or fairly suggested by the prior arts.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to San-ming Hui whose telephone number is (571) 272-0626. The examiner can normally be reached on Mon 9:00 to 1:00, Tu - Fri from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, PhD., can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

San-ming Hui Patent Examiner Art Unit 1617

Chapter